

wherein the inner electrodes of both the DC plug and DC receptacle include juxtaposed contacts, the juxtaposed contacts including a center contact and first and second lateral redundant contacts that are equally spaced from the center contact and positioned in their entirety on opposing sides of the center contact, the center contacts being configured to transmit data signals, the first and second lateral redundant contacts being configured to transmit DC power, and

wherein the center contact of the DC plug mates with the center contact of the DC receptacle in both the 0 and 180 degree orientations, and

wherein the first lateral redundant contact of the inner electrode of the DC plug mates with the first lateral redundant contact[s] of the inner electrode of the DC receptacle and the second lateral redundant contact of the inner electrode of the DC plug mates with the second lateral redundant contact of the inner electrode of the DC receptacle in the 0 degree orientation, and

wherein the first lateral redundant contact of the inner electrode of the DC plug mates with the second lateral redundant contact of the inner electrode of the DC receptacle and the second lateral redundant contact of the inner electrode of the DC plug mates with the first lateral redundant contact of the inner electrode of the DC receptacle in the 180 degree orientation (g)

25. (Previously Presented) The DC connector arrangement as recited in claim 15 wherein the outer conductive shell of the DC receptacle includes a pair ground flexures at the top of the outer conductive shell and a pair of ground flexures at the bottom of the outer conductive shell.

26. (Previously Presented) The DC connector arrangement as recited in claim 16 wherein the holding detent mechanism includes a pair of holding flexures in an opposed relationship on the sides of the DC receptacle and a pair of recesses in an opposed relationship on the sides of the DC plug, the holding flexures having detents that are configured to spring into the recesses when the DC plug is mated with the DC receptacle in order to help secure the DC plug to the DC receptacle, and wherein the DC receptacle includes a first pair of contact flexures on the top of the DC receptacle and a second pair of contact flexures on the bottom of the DC receptacle, the first and second pairs of contact flexures being in opposed relationship.

27. (Currently Amended) The DC connector arrangement as recited in claim 16 wherein the DC receptacle comprises:

~~an outer conductor; and~~

9. (Original) The DC connector arrangement as recited in claim 7 wherein the outer conductive shell of the DC plug fits into the outer conductive shell of the DC receptacle, and wherein the inner electrode of the DC receptacle fits into the inner electrode of the DC plug.
10. (Cancelled)
11. (Cancelled)
12. (Previously Presented) The DC connector arrangement as recited in claim 7 wherein the inner electrode of the DC receptacle includes an insulator, the insulator including a plurality of grooves within which the center and lateral contacts reside and wherein the inner electrode of the DC plug includes an insulator, the insulator including a plurality of rails containing the center and lateral contacts, the rails of the DC plug sliding in and mating with the corresponding grooves of the DC receptacle when the DC plug is mated with the DC receptacle so that the center and lateral contacts of the DC plug electrically engage the center and lateral contacts of the DC receptacle.
13. (Previously Presented) The DC connector arrangement as recited in claim 12 wherein each of the juxtaposed contacts includes an upper contact and a lower contact that are electrically connected in order to form one of the contacts of the juxtaposed contacts and wherein the insulator of the DC receptacle includes an upper groove for each of the upper contacts and a lower groove for each of the lower contacts, and wherein the insulator of the DC plug includes an upper rail for each of the upper contacts and a lower rail for each of the lower contacts.
14. (Original) The DC connector arrangement as recited in claim 7 wherein the outer conductive shell of the DC receptacle includes a holding flexure, and wherein the outer conductive shell of the DC plug includes a recess for receiving a detent of the holding flexure in order to help secure the DC plug to the DC receptacle.
15. (Original) The DC connector arrangement as recited in claim 7 wherein the outer conductive shell of the DC receptacle includes one or more ground flexures for making electrical contact with the outer conductive shell of the DC plug.